

# Gang Chen

## List of Publications by Citations

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575  
papers

61,530  
citations

122  
h-index

237  
g-index

630  
ext. papers

69,553  
ext. citations

8.4  
avg, IF

8.11  
L-index

#	Paper	IF	Citations
575	High-thermoelectric performance of nanostructured bismuth antimony telluride bulk alloys. <i>Science</i> , <b>2008</b> , 320, 634-8	33.3	4220
574	New Directions for Low-Dimensional Thermoelectric Materials. <i>Advanced Materials</i> , <b>2007</b> , 19, 1043-1053	24	2967
573	Bulk nanostructured thermoelectric materials: current research and future prospects. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 466	35.4	1448
572	Solar steam generation by heat localization. <i>Nature Communications</i> , <b>2014</b> , 5, 4449	17.4	1120
571	Nanoscale thermal transport. II. 2003-2012. <i>Applied Physics Reviews</i> , <b>2014</b> , 1, 011305	17.3	1050
570	Analysis of optical absorption in silicon nanowire arrays for photovoltaic applications. <i>Nano Letters</i> , <b>2007</b> , 7, 3249-52	11.5	975
569	Perspectives on thermoelectrics: from fundamentals to device applications. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5147-5162	35.4	925
568	Enhanced thermoelectric figure-of-merit in nanostructured p-type silicon germanium bulk alloys. <i>Nano Letters</i> , <b>2008</b> , 8, 4670-4	11.5	861
567	Thermal conductivity and ballistic-phonon transport in the cross-plane direction of superlattices. <i>Physical Review B</i> , <b>1998</b> , 57, 14958-14973	3.3	836
566	High-performance flat-panel solar thermoelectric generators with high thermal concentration. <i>Nature Materials</i> , <b>2011</b> , 10, 532-8	27	790
565	Recent developments in thermoelectric materials. <i>International Materials Reviews</i> , <b>2003</b> , 48, 45-66	16.1	785
564	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 094312	12	766
563	Solar-driven interfacial evaporation. <i>Nature Energy</i> , <b>2018</b> , 3, 1031-1041	62.3	715
562	Enhancement of Thermoelectric Figure-of-Merit by a Bulk Nanostructuring Approach. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 357-376	15.6	706
561	Steam generation under one sun enabled by a floating structure with thermal concentration. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	650
560	Polyethylene nanofibres with very high thermal conductivities. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 251-5	28.7	581
559	Surface phonon polaritons mediated energy transfer between nanoscale gaps. <i>Nano Letters</i> , <b>2009</b> , 9, 2909-13	11.5	579

558	Enhanced thermoelectric figure of merit in nanostructured n-type silicon germanium bulk alloy. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 193121	3.4	560
557	Heat transport in silicon from first-principles calculations. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	542
556	Recent advances in thermoelectric nanocomposites. <i>Nano Energy</i> , <b>2012</b> , 1, 42-56	17.1	536
555	Experimental studies on anisotropic thermoelectric properties and structures of n-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> . <i>Nano Letters</i> , <b>2010</b> , 10, 3373-8	11.5	524
554	High thermoelectric performance by resonant dopant indium in nanostructured SnTe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 13261-6	11.5	503
553	Enhanced thermoelectric figure-of-merit in p-type nanostructured bismuth antimony tellurium alloys made from elemental chunks. <i>Nano Letters</i> , <b>2008</b> , 8, 2580-4	11.5	476
552	Size effects on the hydrogen storage properties of nanostructured metal hydrides: A review. <i>International Journal of Energy Research</i> , <b>2007</b> , 31, 637-663	4.5	474
551	Thermoelectric Property Studies on Cu-Doped n-type Cu <sub>x</sub> Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> Nanocomposites. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 577-587	21.8	447
550	Pulse accumulation, radial heat conduction, and anisotropic thermal conductivity in pump-probe transient thermoreflectance. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 114902	1.7	422
549	Nanostructured Bulk Silicon as an Effective Thermoelectric Material. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2445-2452	15.6	419
548	A salt-rejecting floating solar still for low-cost desalination. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1510-1519	35.4	409
547	Coherent phonon heat conduction in superlattices. <i>Science</i> , <b>2012</b> , 338, 936-9	33.3	403
546	Enhancement of thermoelectric properties by modulation-doping in silicon germanium alloy nanocomposites. <i>Nano Letters</i> , <b>2012</b> , 12, 2077-82	11.5	395
545	Ballistic-diffusive heat-conduction equations. <i>Physical Review Letters</i> , <b>2001</b> , 86, 2297-300	7.4	395
544	Power factor enhancement by modulation doping in bulk nanocomposites. <i>Nano Letters</i> , <b>2011</b> , 11, 2225-305	30.5	386
543	Resonant bonding leads to low lattice thermal conductivity. <i>Nature Communications</i> , <b>2014</b> , 5, 3525	17.4	374
542	Thermal conductivity spectroscopy technique to measure phonon mean free paths. <i>Physical Review Letters</i> , <b>2011</b> , 107, 095901	7.4	373
541	Phonon conduction in PbSe, PbTe, and PbTe <sub>1-x</sub> Sex from first-principles calculations. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	368

540	Molecular dynamics simulation of thermal conductivity of silicon nanowires. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2056-2058	3.4	349
539	Response of the Zonal Mean Atmospheric Circulation to El Niño versus Global Warming. <i>Journal of Climate</i> , <b>2008</b> , 21, 5835-5851	4.4	344
538	Data reduction in 3D method for thin-film thermal conductivity determination. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 2139-2147	1.7	344
537	Enhanced thermoelectric figure of merit of p-type half-Heuslers. <i>Nano Letters</i> , <b>2011</b> , 11, 556-60	11.5	326
536	Optical absorption enhancement in silicon nanohole arrays for solar photovoltaics. <i>Nano Letters</i> , <b>2010</b> , 10, 1012-5	11.5	321
535	Theoretical phonon thermal conductivity of Si/Ge superlattice nanowires. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 682-693	2.5	312
534	Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 559	35.4	311
533	Enhanced thermal conductivity and viscosity of copper nanoparticles in ethylene glycol nanofluid. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 074301	2.5	311
532	Superplastic carbon nanotubes. <i>Nature</i> , <b>2006</b> , 439, 281	50.4	303
531	Size and Interface Effects on Thermal Conductivity of Superlattices and Periodic Thin-Film Structures. <i>Journal of Heat Transfer</i> , <b>1997</b> , 119, 220-229	1.8	302
530	Relationship between thermoelectric figure of merit and energy conversion efficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 8205-10	11.5	300
529	A review of cermet-based spectrally selective solar absorbers. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1615	35.4	300
528	Enhancement of thermoelectric figure-of-merit by resonant states of aluminium doping in lead selenide. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5246-5251	35.4	299
527	Concentrating Solar Power. <i>Chemical Reviews</i> , <b>2015</b> , 115, 12797-838	68.1	298
526	Heavy doping and band engineering by potassium to improve the thermoelectric figure of merit in p-type PbTe, PbSe, and PbTe(1-y)Se(y). <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 10031-8	16.4	297
525	Nonlocal and Nonequilibrium Heat Conduction in the Vicinity of Nanoparticles. <i>Journal of Heat Transfer</i> , <b>1996</b> , 118, 539-545	1.8	292
524	Direct measurement of room-temperature nondiffusive thermal transport over micron distances in a silicon membrane. <i>Physical Review Letters</i> , <b>2013</b> , 110, 025901	7.4	284
523	Molecular-dynamics simulation of thermal conductivity of silicon crystals. <i>Physical Review B</i> , <b>2000</b> , 61, 2651-2656	3.3	284

522	High thermal conductivity of single polyethylene chains using molecular dynamics simulations. <i>Physical Review Letters</i> , <b>2008</b> , 101, 235502	7.4	281
521	Surface modes for near field thermophotovoltaics. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3544-3546	3.4	280
520	Volumetric solar heating of nanofluids for direct vapor generation. <i>Nano Energy</i> , <b>2015</b> , 17, 290-301	17.1	276
519	Efficient light trapping in inverted nanopyramid thin crystalline silicon membranes for solar cell applications. <i>Nano Letters</i> , <b>2012</b> , 12, 2792-6	11.5	269
518	Spectral Phonon Transport Properties of Silicon Based on Molecular Dynamics Simulations and Lattice Dynamics. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2008</b> , 5, 141-152	0.3	267
517	Enhancement in Thermoelectric Figure-Of-Merit of an N-Type Half-Heusler Compound by the Nanocomposite Approach. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 643-647	21.8	256
516	Thermal conductivity modeling of periodic two-dimensional nanocomposites. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	251
515	Studies on Thermoelectric Properties of n-type Polycrystalline SnSe <sub>1-x</sub> S <sub>x</sub> by Iodine Doping. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500360	21.8	242
514	Plasmonic materials for energy: From physics to applications. <i>Materials Today</i> , <b>2013</b> , 16, 375-386	21.8	242
513	High thermoelectric cooling performance of n-type MgBi-based materials. <i>Science</i> , <b>2019</b> , 365, 495-498	33.3	240
512	An electrochemical system for efficiently harvesting low-grade heat energy. <i>Nature Communications</i> , <b>2014</b> , 5, 3942	17.4	236
511	Near-field thermal radiation between two closely spaced glass plates exceeding Planck's blackbody radiation law. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 133106	3.4	236
510	Modeling the Thermal Conductivity and Phonon Transport in Nanoparticle Composites Using Monte Carlo Simulation. <i>Journal of Heat Transfer</i> , <b>2008</b> , 130, 042410	1.8	229
509	Increased phonon scattering by nanograins and point defects in nanostructured silicon with a low concentration of germanium. <i>Physical Review Letters</i> , <b>2009</b> , 102, 196803	7.4	228
508	Tuning the carrier scattering mechanism to effectively improve the thermoelectric properties. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 799-807	35.4	227
507	Advances in thermoelectrics. <i>Advances in Physics</i> , <b>2018</b> , 67, 69-147	18.4	225
506	Spectral mapping of thermal conductivity through nanoscale ballistic transport. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 701-6	28.7	222
505	Thermoelectric properties of copper selenide with ordered selenium layer and disordered copper layer. <i>Nano Energy</i> , <b>2012</b> , 1, 472-478	17.1	217

504	Structure study of bulk nanograined thermoelectric bismuth antimony telluride. <i>Nano Letters</i> , <b>2009</b> , 9, 1419-22	11.5	216
503	Toward the Lambertian limit of light trapping in thin nanostructured silicon solar cells. <i>Nano Letters</i> , <b>2010</b> , 10, 4692-6	11.5	214
502	Thermal conductivity of symmetrically strained Si/Ge superlattices. <i>Superlattices and Microstructures</i> , <b>2000</b> , 28, 199-206	2.8	209
501	Stronger phonon scattering by larger differences in atomic mass and size in p-type half-Heuslers Hf <sub>1-x</sub> Ti <sub>x</sub> CoSb <sub>0.8</sub> Sn <sub>0.2</sub> . <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 7543	35.4	205
500	Aspects of Thin-Film Superlattice Thermoelectric Materials, Devices, and Applications. <i>MRS Bulletin</i> , <b>2006</b> , 31, 211-217	3.2	202
499	Studies on the Bi <sub>2</sub> Te <sub>3</sub> Bi <sub>2</sub> Se <sub>3</sub> Bi <sub>2</sub> S <sub>3</sub> system for mid-temperature thermoelectric energy conversion. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 552-560	35.4	201
498	Modified effective medium formulation for the thermal conductivity of nanocomposites. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 073105	3.4	199
497	Thermal conductivity of simple and tubular nanowire composites in the longitudinal direction. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	199
496	Experimental investigation of heat conduction mechanisms in nanofluids. Clue on clustering. <i>Nano Letters</i> , <b>2009</b> , 9, 4128-32	11.5	198
495	High thermoelectric performance of MgAgSb-based materials. <i>Nano Energy</i> , <b>2014</b> , 7, 97-103	17.1	197
494	Recent progress and future challenges on thermoelectric Zintl materials. <i>Materials Today Physics</i> , <b>2017</b> , 1, 74-95	8	195
493	Hydrodynamic phonon transport in suspended graphene. <i>Nature Communications</i> , <b>2015</b> , 6, 6290	17.4	191
492	Concentrating solar thermoelectric generators with a peak efficiency of 7.4%. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	190
491	Near-field radiative heat transfer between a sphere and a substrate. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	189
490	Heat Transfer in Nanostructures for Solid-State Energy Conversion. <i>Journal of Heat Transfer</i> , <b>2002</b> , 124, 242-252	1.8	188
489	Routes for high-performance thermoelectric materials. <i>Materials Today</i> , <b>2018</b> , 21, 974-988	21.8	187
488	Thermal conductivity of periodic microporous silicon films. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 687-689	3.4	187
487	Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , <b>2018</b> , 361, 582-585	33.3	185

486	Atomic-scale imaging of wall-by-wall breakdown and concurrent transport measurements in multiwall carbon nanotubes. <i>Physical Review Letters</i> , <b>2005</b> , 94, 236802	7.4	184
485	Evidence for a spinon Fermi surface in a triangular-lattice quantum-spin-liquid candidate. <i>Nature</i> , <b>2016</b> , 540, 559-562	50.4	184
484	Manipulation of ionized impurity scattering for achieving high thermoelectric performance in n-type MgSb-based materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10548-10553	11.5	183
483	Enhancing phonon transmission across a Si/Ge interface by atomic roughness: First-principles study with the Green's function method. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	181
482	1D and 3D methods for measurements of thermal properties. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 124902	1.7	178
481	Nanoscale heat transfer--from computation to experiment. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 3389-412	3.6	177
480	Ballistic-Diffusive Equations for Transient Heat Conduction From Nano to Macroscales. <i>Journal of Heat Transfer</i> , <b>2002</b> , 124, 320-328	1.8	177
479	Giant thermopower of ionic gelatin near room temperature. <i>Science</i> , <b>2020</b> , 368, 1091-1098	33.3	168
478	Thermal conductivity and heat transfer in superlattices. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 2761-2763	3.4	166
477	Achieving high power factor and output power density in p-type half-Heuslers Nb <sub>1-x</sub> Ti <sub>x</sub> FeSb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 13576-13581	11.5	164
476	Thermal conductivity of half-Heusler compounds from first-principles calculations. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	163
475	Infrared-Transparent Visible-Opaque Fabrics for Wearable Personal Thermal Management. <i>ACS Photonics</i> , <b>2015</b> , 2, 769-778	6.3	162
474	Modeling study of thermoelectric SiGe nanocomposites. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	160
473	Significant reduction of lattice thermal conductivity by the electron-phonon interaction in silicon with high carrier concentrations: a first-principles study. <i>Physical Review Letters</i> , <b>2015</b> , 114, 115901	7.4	159
472	Effect of Hf Concentration on Thermoelectric Properties of Nanostructured N-Type Half-Heusler Materials Hf <sub>x</sub> Zr <sub>1-x</sub> NiSn <sub>0.99</sub> Sb <sub>0.01</sub> . <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1210-1214	21.8	158
471	Thermal Diffusivity Measurement of GaAs/AlGaAs Thin-Film Structures. <i>Journal of Heat Transfer</i> , <b>1994</b> , 116, 325-331	1.8	155
470	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. <i>Nature Communications</i> , <b>2019</b> , 10, 270	17.4	155
469	Thermal conductance and phonon transmissivity of metal-graphite interfaces. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 104907	2.5	154



468	Phase speed spectra and the recent poleward shift of Southern Hemisphere surface westerlies. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	154
467	Discovery of ZrCoBi based half Heuslers with high thermoelectric conversion efficiency. <i>Nature Communications</i> , <b>2018</b> , 9, 2497	17.4	154
466	Frequency-dependent Monte Carlo simulations of phonon transport in two-dimensional porous silicon with aligned pores. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 114321	2.5	153
465	Charging-free electrochemical system for harvesting low-grade thermal energy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 17011-6	11.5	152
464	Effects of nanoscale porosity on thermoelectric properties of SiGe. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 094308	2.5	152
463	Thermal near-field radiative transfer between two spheres. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	152
462	Thermal conductivity modeling of core-shell and tubular nanowires. <i>Nano Letters</i> , <b>2005</b> , 5, 1111-5	11.5	152
461	Thermal radiation from photonic crystals: a direct calculation. <i>Physical Review Letters</i> , <b>2004</b> , 93, 213905	7.4	146
460	Thermal emission control with one-dimensional metallodielectric photonic crystals. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	146
459	Reversible temperature regulation of electrical and thermal conductivity using liquid-solid phase transitions. <i>Nature Communications</i> , <b>2011</b> , 2, 289	17.4	142
458	Partially coherent phonon heat conduction in superlattices. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	142
457	Ab initio study of electron-phonon interaction in phosphorene. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	137
456	Phonon heat conduction in nanostructures. <i>International Journal of Thermal Sciences</i> , <b>2000</b> , 39, 471-480	4.1	136
455	15.7% Efficient 10- $\mu$ m-thick crystalline silicon solar cells using periodic nanostructures. <i>Advanced Materials</i> , <b>2015</b> , 27, 2182-8	24	128
454	Temperature dependence of thermophysical properties of GaAs/AlAs periodic structure. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 3554-3556	3.4	125
453	Tailoring high-temperature radiation and the resurrection of the incandescent source. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 320-4	28.7	122
452	Nanostructured polymer films with metal-like thermal conductivity. <i>Nature Communications</i> , <b>2019</b> , 10, 1771	17.4	120
451	Enhanced Thermal Stability of W-Ni-Al <sub>2</sub> O <sub>3</sub> Cermet-Based Spectrally Selective Solar Absorbers with Tungsten Infrared Reflectors. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401042	21.8	120



450	Simulation of Nanoscale Multidimensional Transient Heat Conduction Problems Using Ballistic-Diffusive Equations and Phonon Boltzmann Equation. <i>Journal of Heat Transfer</i> , <b>2005</b> , 127, 298-306	1.8	120
449	Thermoelectric Property Study of Nanostructured p-Type Half-Heuslers (Hf, Zr, Ti)CoSb <sub>0.8</sub> Sn <sub>0.2</sub> . <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1195-1200	21.8	119
448	On the importance of optical phonons to thermal conductivity in nanostructures. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 053122	3.4	118
447	Measurements of anisotropic thermoelectric properties in superlattices. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 3588-3590	3.4	118
446	Challenges in Microscale Conductive and Radiative Heat Transfer. <i>Journal of Heat Transfer</i> , <b>1994</b> , 116, 799-807	1.8	117
445	An optical pump-probe technique for measuring the thermal conductivity of liquids. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 064902	1.7	116
444	Formation of crystallized titania nanotubes and their transformation into nanowires. <i>Nanotechnology</i> , <b>2005</b> , 16, 1935-1940	3.4	116
443	Supercooling of Peltier cooler using a current pulse. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 1564-1569	2.5	115
442	First-principles simulation of electron mean-free-path spectra and thermoelectric properties in silicon. <i>Europhysics Letters</i> , <b>2015</b> , 109, 57006	1.6	114
441	High thermoelectric conversion efficiency of MgAgSb-based material with hot-pressed contacts. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1299-1308	35.4	114
440	Thermal interface conductance in Si/Ge superlattices by equilibrium molecular dynamics. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	113
439	A Special Issue on Nanoscale Heat Transfer. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2008</b> , 5, 1-2	0.3	113
438	A Microporous and Naturally Nanostructured Thermoelectric Metal-Organic Framework with Ultralow Thermal Conductivity. <i>Joule</i> , <b>2017</b> , 1, 168-177	27.8	112
437	Anomalous heat conduction in polyethylene chains: Theory and molecular dynamics simulations. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	112
436	Contactless steam generation and superheating under one sun illumination. <i>Nature Communications</i> , <b>2018</b> , 9, 5086	17.4	112
435	Photovoltaic-thermoelectric hybrid systems: A general optimization methodology. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 243503	3.4	111
434	Deep defect level engineering: a strategy of optimizing the carrier concentration for high thermoelectric performance. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 933-940	35.4	110
433	Membrane-free battery for harvesting low-grade thermal energy. <i>Nano Letters</i> , <b>2014</b> , 14, 6578-83	11.5	110

432	Modeling and optimization of solar thermoelectric generators for terrestrial applications. <i>Solar Energy</i> , <b>2012</b> , 86, 1338-1350	6.8	108
431	Minimum thermal conductivity in superlattices: A first-principles formalism. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	108
430	Phase Speed Spectra and the Latitude of Surface Westerlies: Interannual Variability and Global Warming Trend. <i>Journal of Climate</i> , <b>2008</b> , 21, 5942-5959	4.4	108
429	Molecular engineered conjugated polymer with high thermal conductivity. <i>Science Advances</i> , <b>2018</b> , 4, eaar3031	14.3	103
428	Heat conduction mechanisms in nanofluids and suspensions. <i>Nano Today</i> , <b>2012</b> , 7, 124-136	17.9	101
427	Heat Transfer in Thermoelectric Materials and Devices. <i>Journal of Heat Transfer</i> , <b>2013</b> , 135,	1.8	101
426	Microscopic mechanism of low thermal conductivity in lead telluride. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	101
425	Thermal percolation in stable graphite suspensions. <i>Nano Letters</i> , <b>2012</b> , 12, 188-92	11.5	101
424	Real-time observation of tubule formation from amorphous carbon nanowires under high-bias Joule heating. <i>Nano Letters</i> , <b>2006</b> , 6, 1699-705	11.5	101
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422	Particularities of Heat Conduction in Nanostructures. <i>Journal of Nanoparticle Research</i> , <b>2000</b> , 2, 199-204	2.3	98
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